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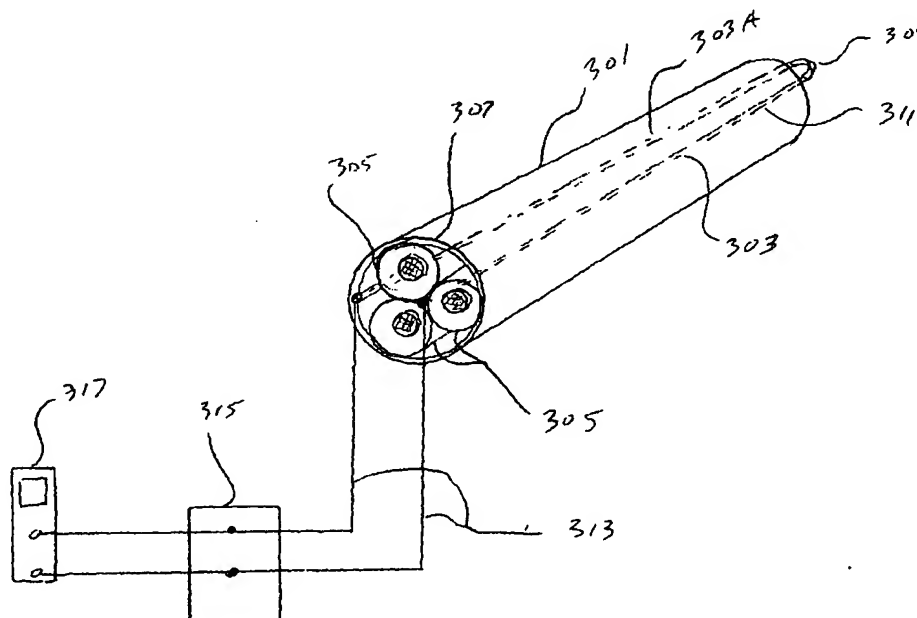
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(54) Title: AN ELECTRICAL CONDITION MONITORING METHOD FOR POLYMERS



(57) Abstract: An electrical condition monitoring method utilizes measurements of electrical resistivity of an age sensor (303) made of a conductive matrix or composite disposed in a polymeric structure such as an electrical cable (301). The conductive matrix comprises a base polymer and conductive filler. The method comprises a means for communicating the resistivity to a measuring instrument (317) as a means to correlate resistivity of the conductive matrix of the polymeric structure with resistivity of an accelerated-aged conductive composite.